

In the Claims:

1. (currently amended) Method for transmitting a plurality of information symbols between a first transceiver and a second transceiver by means of modulating a carrier signal, wherein

a different modulation index (M1, M2, M3, M4) is assigned to each one of the information symbol, symbols, and

at least one of the characteristic physical ~~variables~~ variable of the carrier signal is modulated in accordance with the different modulation indices (M1, M2, M3, M4) assigned respectively to the information symbols that are modulated onto the carrier signal.

2. (currently amended) Method according to claim 1, wherein, alongside the frequency and phase, the amplitude (A) is preferably modulated as ~~[[a]]~~ the characteristic physical variable of the carrier signal.

3. (original) Method according to claim 1, wherein the nth information symbol is transmitted with a time-shift from the (n+1)th information symbol.

Claim 4 (canceled).

112 reg.

1 5. (original) Method according to claim 1, wherein the nth
2 information symbol is transmitted simultaneously with the
3 (n+x)th information symbol.

obj: x is not defined in the claim

Claim 6 (canceled).

1 ~~12~~ (currently amended) Method according to claim 1, wherein
2 not only the modulation indices (M1, M2, M3, M4) ~~[[are]]~~
3 but also combined with the respective period length lengths
4 (T0, T1) of [[a]] modulation in order to transmit periods
5 differ respectively from one another to define additional
6 information symbols.

erlow
X

Claims 8 and 9 (canceled).

obj
claim 10

1 10. (currently amended) Method according to claim 1, wherein
2 the first transceiver controls the second transceiver by at
3 least one control signal, ~~for example a clock signal,~~ being
4 a clock signal assigned to an information symbol.

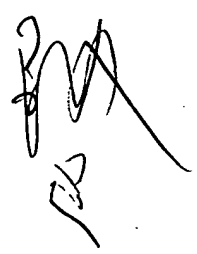
Claims 11 and 12 (canceled).

obj
search

1 ~~13~~ (currently amended) Method according to claim ~~[[10]]~~ 1,
2 wherein ~~[[the]]~~ at least one of the information symbols
3 comprises a control signal for setting [[the]] a data rate
4 for [[the]] a data transmission of the modulated carrier
5 signal is used by the first transceiver, and the modulation
6 index of the control signal is ~~preferably~~ smaller than the

7 modulation index of ~~[[the]]~~ a data ~~signal~~. signal formed by
8 others of said information symbols.

1 14. (currently amended) ~~Application Method~~ according to claim
2 ~~[[1,]]~~ 10, wherein ~~said application replaces an the second~~
3 ~~transceiver has no~~ electronic circuit for clock generation
4 ~~in the second transceiver preferably in the case of and is~~
5 a passive transponder system. that uses the clock signal
6 for local clocking.



Claim 15 (canceled).

1 16. (new) A method of producing and transmitting a modulated
2 information signal from a first device to a second device,
3 comprising the steps:

- 4 a) defining plural information symbols;
- 5 b) assigning plural different modulation indices
6 respectively individually to said information symbols,
7 wherein said modulation indices differ from one
8 another;
- 9 c) representing information items, which are to be
10 transmitted, with said information symbols;
- 11 d) modulating said information symbols onto a carrier
12 signal, comprising modulating a characteristic
13 physical parameter of said carrier signal in
14 accordance with said different modulation indices
15 respectively assigned to said information symbols, to
16 produce a modulated information signal; and

17 e) transmitting said modulated information signal from
18 said first device to said second device.

1 17. (new) The method according to claim 16, wherein said
2 information symbols include first and second information
3 symbols that differ from one another, and said modulation
4 indices include first and second modulation indices that
5 differ from one another and that are respectively assigned
6 to said first and second information symbols.

1 18. (new) The method according to claim 17, wherein said
2 information symbols further include a third information
3 symbol that differs from said first and second information
4 symbols, and said modulation indices further include a
5 third modulation index that differs from said first and
6 second modulation indices and that is assigned to said
7 third information symbol.

1 19. (new) The method according to claim 18, wherein said
2 information symbols further include a fourth information
3 symbol that differs from said first, second and third
4 information symbols, and said modulation indices further
5 include a fourth modulation index that differs from said
6 first, second and third modulation indices and that is
7 assigned to said fourth information symbol.

20. (new) The method according to claim 17, wherein said first and second information symbols respectively have different durations relative to one another.

symbols w/ different durations or intervals

21. (new) The method according to claim 17, wherein said first and second information symbols respectively have different numbers and/or different patterns of modulation pulses relative to one another.

22. (new) The method according to claim 16, wherein said different modulation indices respectively have predefined modulation index values that differ from one another by predefined differences that can be detected and differentiated between by said second device, and further comprising detecting and decoding said information symbols and said modulation indices respectively assigned thereto as received in said modulated information signal in said second device.

not described in the spec

prior art

23. (new) The method according to claim 16, wherein said information symbols respectively having said different modulation indices assigned thereto respectively represent different types of said information items that are to be transmitted.

not for

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1 24. (new) The method according to claim 16, wherein said
2 characteristic physical parameter of said carrier signal
3 being modulated in said step d) comprises a frequency or a
4 phase of said carrier signal.

1 25. (new) The method according to claim 16, wherein said
2 characteristic physical parameter of said carrier signal
3 being modulated in said step d) comprises an amplitude of
4 said carrier signal.

1 26. (new) The method according to claim 25, wherein said
2 different modulation indices give rise to respective
3 different maximum amplitudes and a consistent amplitude
4 modulation swing of said respective information symbols
5 modulated in said modulated information signal.

1 27. (new) The method according to claim 16, wherein said
2 information symbols are modulated in succession
3 respectively in successive time intervals one after another
4 in said modulated information signal.

1 28. (new) The method according to claim 16, further comprising
2 defining an additional information symbol and modulating
3 said additional information symbol onto said carrier wave
4 simultaneously with at least a selected one of said
5 information symbols defined in said step a) by
6 superimposing said additional information symbol thereon in
7 said modulated information signal.

AM modulation
index

72 29. (new) The method according to claim 16, wherein said step
d) comprises modulating said information symbols
successively in respective successive time intervals onto
said carrier signal, with one or more of said successive
time intervals respectively defining respective successive
signal periods bounded between field gaps in said modulated
information signal, and further comprising defining
additional information symbols that are respectively
assigned respective ones of said signal periods having
respective different time durations and that represent
additional information in said signal periods having said
different time durations.

30. (new) The method according to claim 16, wherein at least
one of said information symbols represents a control
signal, and further comprising receiving said control
signal in said modulated information signal in said second
device and controlling said second device responsively to
said control signal.

31. (new) The method according to claim 30, wherein said second
device is a passive transponder that does not include a
local clocking signal generator circuit, wherein said
control signal is a clock signal, and said controlling of
said second device comprises controlling a local clocking
of said second device in response to said clock signal.